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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,587	02/10/2005	Kazushi Wada	450100-04723	9868
7550 11/17/2908 William S Frommer Frommer Lawrence & Haug			EXAMINER	
			TRAN, THANH Y	
745 Fifth Aver New York, NY			ART UNIT	PAPER NUMBER
,			2892	
			MAN PART	DEL MEDILLORE
			MAIL DATE 11/17/2008	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/521,587 WADA ET AL. Office Action Summary Examiner Art Unit THANH Y. TRAN 2892 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 28 July 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 5.6.10 and 18-20 is/are pending in the application. 4a) Of the above claim(s) 12-17 is/are withdrawn from consideration. 5) Claim(s) 5,6,10 and 18-20 is/are allowed. 6) Claim(s) _____ is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date ______.

Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

This application is in condition for allowance except for the following formal matters:

Restriction

 This application is in condition for allowance except for the presence of claims 12-17 is directed to non-elected group with traverse in the reply filed on 09/18/2006.

Applicant is given ONE MONTH or THIRTY DAYS from the date of this letter, whichever is longer, to cancel the noted claims or take other appropriate action (37 CFR 1.144). Failure to take action during this period will be treated as authorization to cancel the noted claims by Examiner's Amendment and pass the case to issue. Extensions of time under 37 CFR 1.136(a) will not be permitted since this application will be passed to issue.

The prosecution of this case is closed except for consideration of the above matter.

Prosecution on the merits is closed in accordance with the practice under Ex parte

Ouavle, 25 USPO 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire TWO MONTHS from the mailing date of this letter.

Allowable Subject Matter

- Claims 5-6, 10, and 18-20 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The prior art of record and to the examiner's knowledge does not teach or render obvious, at least to the skilled artisan, the instant invention regarding a solid-state image pickup device comprising: a photosensor portion and a transfer portion on a substrate; and an overflow barrier is formed within the substrate; wherein the potential under the transfer portion is smaller than the

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potential under the photosensor portion along the depth direction of the substrate in a range from the minimum potential position to the overflow barrier; and wherein one or a plurality of impurity regions of the transfer portion is arranged in four layers and one or a plurality of second impurity regions formed under the photosensor portion is arranged in seven layers along the depth direction of the substrate, as recited in independent claim 5. Claims 6 and 10 are dependent upon independent claim 5.

The prior art of record and to the examiner's knowledge does not teach or render obvious, at least to the skilled artisan, the instant invention regarding a solid-state image pickup device comprising: a photosensor portion and a transfer portion on a substrate; and an overflow barrier is formed within the substrate; wherein the potential under the transfer portion is smaller than the potential under the photosensor portion along the depth direction of the substrate in a range from the minimum potential position to the overflow barrier; wherein one or a plurality of impurity regions of the transfer portion and one or a plurality of second impurity regions under the photosensor are formed with different depths and arranged in more than three layers along the depth direction of the substrate, as recited in independent claim 18. Claims 19-20 are dependent upon independent claim 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Y. Tran whose telephone number is (571) 272-2110. The

examiner can normally be reached on M-F (9-6:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thao X Le, can be reached on (571) 272-1708. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/T. Y. T./

Examiner, Art Unit 2892

/Phuc T Dang/

Primary Examiner, Art Unit 2892